

Application No.: 10/534,771

2003P13354WOUS  
Walbrach et al.**AMENDMENTS TO THE CLAIMS**

The text of all pending claims, (including withdrawn claims) is set forth below. The following listing of claims replaces all prior versions and listings of claims in the application.

**Listing of Claims**

1 - 20. (cancelled)

21. (currently amended) An apparatus for optimizing the efficiency of an amplifier arrangement comprising:

a non-linear power amplifier in a mobile radio device; and  
a plurality of push-pull phase modifiers coupled to said amplifier,  
wherein said phase modifiers generate a signal offset in phase form  
from an input signal, and

wherein the outputs of the phase modifiers are coupled to a passive component,

wherein a symmetrical transformer included in the amplifier arrangement is used as the passive component, and

wherein a voltage is decoupled in the symmetrical transformer that is rectified in a rectifier, and wherein the direct current output by the rectifier is fed to a supply unit as charge current.

22. (cancelled)

23. (previously presented) The apparatus according to claim 21 wherein power is obtained at the passive component after the phase modifiers.

24. (previously presented) The apparatus according to claim 21, wherein an amplitude modulated signal is generated by the amplifier arrangement by means of fed amplitude information.

25. - 29. (cancelled)

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30. (previously presented) The apparatus according to claim 21, wherein a signal generated by the power amplifier is divided into two part signals of equal size and fed to the plurality phase modifiers.

31. (currently amended) The apparatus according to claim 2621, wherein the input impedance of the rectifier is amplitude-independent.

32. (currently amended) The apparatus according to claim 2621, wherein a single-path or multipath rectifier is used as the rectifier.

33. (currently amended) The apparatus according to claim 21, wherein the maximum peak power arising in the power amplifier can be transmitted with a deviation of up to 6 dB.

34. (previously presented) The apparatus according to claim 21, wherein the transmitted power of the power amplifier is up to 6 dB around the crest factor above the average power required at the output.

35. (previously presented) The apparatus according to claim 31, further comprising a supply unit coupled to the power amplifier, wherein the supply unit is one of a battery and an ac adapter.